



Hach Company Homeland Security Technologies Profile and CRADA with U.S. EPA

CRADA

The Hach Company's Homeland Security Technologies business unit and the U.S. EPA have initiated a Cooperative Research and Development Agreement (CRADA) in response to EPA's responsibilities for securing the national water infrastructure under Presidential Decision Directive 63. The objective of this research is to develop an early warning network that includes water quality sensors interfaced with data acquisition systems to provide operators a real time alert of intentional or accidental contamination of a drinking water system. The experiments will be conducted on a recirculating test loop and single pass pipe at the Water Awareness Technology Evaluation Research Security (WATERS) Center located at EPA's Test and Evaluation facility in Cincinnati, Ohio. Additional testing may be conducted at secure military facilities. EPA will evaluate the feasibility of developing an early warning system and will prepare a final report documenting the results of this research.

TECHNOLOGY

Hach produces a real time water distribution monitoring panel that bundles several of their sensors into one unit, including a total organ carbon (TOC) analyzer utilizing an ultraviolet persulfate oxidation method of detection, and a reagentless multi-parameter Sonde. EPA will be testing this equipment to determine if real time changes to water quality parameters can be detected when contaminants such as pesticides, herbicides, industrial chemicals and wastewater are introduced into drinking water distribution systems. EPA will also conduct controlled experiments to determine the performance of Hach sensors.

COMPANY INFORMATION

Hach, with operations in Loveland, Colorado, and Ames, Iowa, provides advanced analytical water monitoring systems. Its new Homeland Security Technologies unit focuses on homeland security and water infrastructure protection. Their products are used world-wide, providing analyses for laboratory, process and field applications for more than 50 years.